



**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT  
PTO-1449**

ATTY. DOCKET NO.  
2653/52

SERIAL NO.  
09/993,757

APPLICANT  
Jon THORSON et al.

FILING DATE  
November 27, 2001

GROUP  
1641

**U. S. PATENT DOCUMENTS**

EXAMINER INITIAL	PATENT NUMBER	PATENT DATE	NAME	CLASS	SUBCLASS	FILING DATE*
CW	4,766,062	August 23, 1988	Diamond et al.	435	6	
	4,752,566	June 21, 1988	Collins et al.	435	6	
	4,725,536	February 16, 1988	Fritsch	435	6	
	4,725,537	February 16, 1988	Fritsch	435	6	
	5,210,015	May 11, 1993	Gelfand et al.	435	6	
	5,538,848	July 23, 1996	Livak et al.	435	5	
	5,925,517	July 20, 1999	Tyagi et al.	435	6	

**FOREIGN PATENT DOCUMENTS**

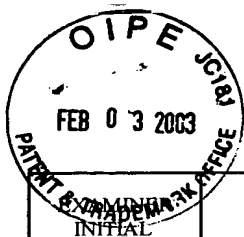
EXAMINER INITIAL	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
						YES	NO
CW	0 070 685 A2	January 26, 1983	Europe	—	—		
	0 232 967 A2	August 19, 1987	Europe	—	—		
	0 601 889 A3	December 10, 1993	Europe	—	—		
	WO 95/13399	May 18, 1995	PCT	—	—		
	WO 00/37608	June 29, 2000	PCT	—	—		
	WO 96/21144 A	July 11, 1996	PCT	—	—		
	198 58 588 A	February 24, 2000	Germany				✓
	WO 95/32181 A	November 30, 1995	PCT				✓

**OTHER DOCUMENTS**

EXAMINER INITIAL	AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.
CW	Stryer, L., "Fluorescence Energy Transfer as a Spectroscopic Ruler," Ann. Rev. Biochem., 47: 819-846, 1978
	Cantor, C.R. et al., <u>Biophysical Chemistry, part II, Techniques for the Study of Biological Structure and Function</u> , W.H. Freeman and Co., San Francisco, U.S.A., 1980, pp. 448-455
	Selvin, P.R. "Fluorescence Resonance Energy Transfer," Methods in Enzymology, 246: 300-335, 1995
	Matayoshi, et al., "Novel Fluorogenic Substrates for Assaying Retroviral Proteases by Resonance Energy Transfer", Science 247: 954-958, 1990
	Cardullo et al., "Detection of nucleic acid hybridization by nonradiative fluorescence resonance energy transfer", Proc. Natl. Acad. Sci. USA. 85: 8790-8794, 1988
	Morrison et al., "Sensitive Fluorescence-Based Thermodynamic and Kinetic Measurements of DNA Hybridization in Solution," Biochemistry 32: 3095-3104, 1993
	Tyagi, S. et al., "Molecular Beacons: Probes that Fluoresce upon Hybridization," Nature Biotechnology 14: 303-308, 1996

*Cynthia W. Welder*

*8/14/03*



INITIAL	AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.
CW	Thorson, J.S. et al., "Understanding and Exploiting Nature's Chemical Arsenal: The Past, Present and Future of Calicheamicin Research" Curr. Pharmaceutical Design 6(18): 1841-1879, 2000
	Thorson, J.S. et al., "Enediyne Biosynthesis and Self-Resistance: A Progress Report" Bioorgan. Chem. 27: 172-188, 1999
	Borders, D.B. et al., <u>Enediyne Antibiotics as Antitumor Agents</u> , Marcel Dekker, New York, NY, pp. 1-15, 1995
	Smith, A.L. et al., "The Enediyne Antibiotics", J. of Med. Chem. 39: 2103-2117, 1996
	Nicolaou, K.C. et al., "Chemistry and biology of natural and designed enediynes", Proc. Natl. Acad. Sci. USA 90: 5881-5888, 1993
	Nicolaou, K.C. et al., "Chemistry and Biology of the Enediyne Anticancer Antibiotics", Angew. Chem. Intl. Ed. 30: 1387-1416, 1991
	Zein, N. et al., "Calicheamicin $\gamma_1$ and DNA: Molecular Recognition Process Responsible for Site-Specificity" Science 244: 697-699, 1989
	Zein, N. et al., "Calicheamicin $\gamma_1$ : An Antitumor Antibiotic that Cleaves Double-stranded DNA Site Specifically" Science 240: 1198-1201, 1988
	Kumar, R.A. et al., "Solution Structure of the "Calicheamicin $\gamma_1$ -DNA Complex" J. Mol. Biol. 265: 187-201, 1997
	Sievers, E.L. et al., "Selective Ablation of Acute Myeloid Leukemia Using Antibody-Targeted Chemotherapy", Blood 93: 3678-3684, 1999
	Bemstein, I.D., "Monoclonal antibodies to the myeloid stem cells", Leukemia 14: 474-475, 2000
	Tyagi, S. et al., "Multicolor molecular beacons for allele discrimination" Nature Biotechnol. 16: 49-53, 1998
	Kettling, U. et al., "Real-time enzyme kinetics monitored by dual-color fluorescence cross-correlation spectroscopy", Proc. Natl. Acad. Sci. USA 95: 1416-1420, 1998
	Lee et al., "New energy transfer dyes for DNA sequencing", Nucleic Acids Research 25: 2816-2822, 1997
	Jacobson, E.N. et al., "Synthetic and biological catalysts in chemical synthesis: how to assess practical utility", Chem. Biol. 1: 85-90, 1994
	Roy, K.B. et al., "Use of Isotope-Dilution Phenomenon to Advantage in the Determination of Kinetic Constants $K_m$ and $K_{cat}$ for BamHI Restriction Endonuclease: An Empirical and Iterative Approach", Anal. Biochem. 220: 160-164, 1994
	Van Dyke et al., "Methidiumpropyl-EDTA-Fe(II) and Dnase I footprinting report different small molecule binding site sizes on DNA", Nuc. Acids Res. 11: 5555-5567, 1983
	Giloni et al., "Bleomycin-induced Strand-scission of DNA", J. Biol. Chem. 256: 8608-8615, 1981
	Tullius et al., "Hydroxyl Radical Footprinting", Meth. Enzymol. 208: 380-413, 1991
	Ghosh, S.S. et al., "Real Time Kinetics of Restriction Endonuclease Cleavage Monitored by Fluorescence Resonance Energy Transfer," Nucleic Acids Research, Vol. 22, No. 15, pp. 3155-3159, 1994
	Lee, S.P. et al., "A Fluorometric Assay for DNA Cleavage Reactions Characterized with <i>Bam</i> HI Restriction Endonuclease," Analytical Biochemistry, Vol. 220, pp. 377-383, 1994
	Kostrikis, L.G. et al., "Molecular Beacons: Spectral Genotyping of Human Alleles," Science, Vol. 279, No. 20, pp. 1228-1229, February 20, 1998
	Biggins, J.B. et al., "A Continuous Assay for DNA Cleavage: The Application of 'Break Lights' to Enediynes, Iron-Dependent Agents, and Nucleases," PNAS, Vol. 97, No. 25, pp. 13537-13542, December 5, 2000
	Cohenford, M.A. et al., "Rapid Detection of Chlamydia Trachomatis from Specimens Collected for the ThinPrep® Pap Test™ Using Molecular Beacons and the Roche LightCycler™," Abstracts of the General Meeting of the American Society for Microbiology, Vol. 101, May 20-24, 2001, p. 195

EXAMINER <i>Cynthia Wilder</i>	DATE CONSIDERED <i>8/14/03</i>
EXAMINER: Initial if citation considered, whether or not citation is in conformance with M.P.E.P. 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	